

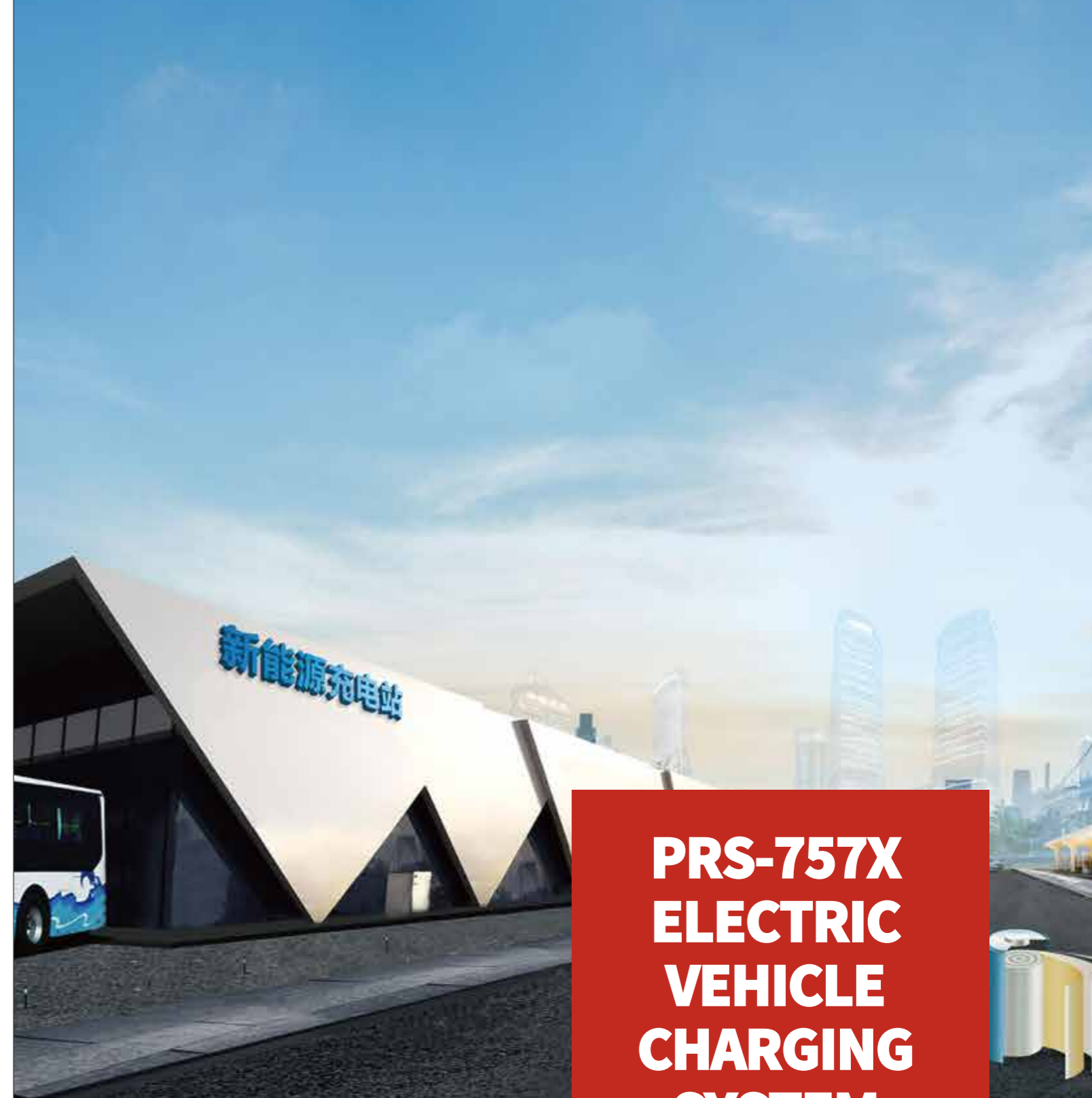


For a safer and easier use of energy

**CYG SUNRI CO., LTD.**

No.13, Keji North 1st Road  
North Area of Hi-Tech Industrial Park  
Nanshan District, 518057 Shenzhen  
China +86-755-3301 8888

[www.sznari.com](http://www.sznari.com)



**PRS-757X  
ELECTRIC  
VEHICLE  
CHARGING  
SYSTEM  
SOLUTIONS**

**CYG**



## CONTENTS

- 01 INTRODUCTION OF THE CHARGING BUSINESS SEGMENT
- 04 INTRODUCTION OF PRODUCT PARAMETERS AND ADVANTAGES
- 10 PRS-7570 CHARGING OPERATION MANAGEMENT SYSTEM
- 12 CHARGING SYSTEM SOLUTIONS
- 17 TYPICAL PROJECTS

For a Safer and Easier Use of Energy

# Introduction of Charging Products

## • Qualifications

### Product level

Product qualification certificates (DC 600kW and AC 84kW)

A total of more than 60 models have passed the qualification certification of national key laboratories



### General contractor level

- **Class C of Engineering Design of Power Industry (power transmission engineering and substation engineering)**  
With the certificate, SUNRI can undertake substation projects and power transmission projects with voltage level of 110KV and below, and the area where the business is undertaken is not restricted.
- **Level VI Certificate of Power Facilities Installation (Repair, Test) Permit**  
With the certificate, SUNRI can undertake the installation, maintenance or testing of power facilities with voltage level below 35KV.
- **Level III Certificate of General Contracting for Electric Power Engineering Construction**  
SUNRI has the ability to independently undertake the general contracting of project construction.



### System integration level

- **Class I Certificate of Information System Integration & Service qualification**  
SUNRI has the comprehensive ability to engage in computer information system integration
- **IT Service Management System Certification Certificate**  
With the certificate, SUNRI can undertake the development and operation & maintenance services of power monitoring automation system and charging monitoring system platform



## • Introduction of advantages

With a perfect industrial chain, CYG SUNRI is a diversified enterprise integrating research and development, experiment, production and after-sales.

## • Advantages of the Company and its technology reserve

The Company has a strong research and development team with strong scientific research capability; The researchers and developers account for more than 40% of its staff; It has participated in a number of national key projects and the formulation and discussion of nearly 100 standards; The Company has also applied for more than 300 patents, and won the first prize of 2019 China Mechanical Industry Science and Technology Award among the provincial and ministerial-level projects related to charging piles.



## • Laboratory advantages

CYG SUNRI has an EMC electromagnetic compatibility laboratory, an electrical performance testing laboratory, an environmental reliability laboratory and a failure analysis laboratory; It has passed the CNAS certification (certificate number: CNAS L12232) of China National Accreditation Service for Conformity Assessment and can issue authoritative testing reports recognized by the state. The laboratories have always adhered to the quality policy of "reasonable and fair, accurate and efficient, satisfactory service and continuous improvement" to continuously provide high-quality products and services for companies and customers and create engineering value.



## • Production advantages

### Advanced production lines

CYG SUNRI boasts internationally advanced electronic assembly lines, involving SMT production lines, assembly production lines, assembly lines, etc., including processing of mechanical modules and PCBs and equipment assembly. All core boards are independently developed, produced and tested, and the one-time pass rate of the boards is as high as over 99.9%, ensuring product reliability and timeliness of product delivery.



## First-class assembly production line

SUNRI has a factory area of 60,000 m<sup>2</sup>, featuring strict quality control, comprehensive factory testing and efficient and flexible production and delivery system. Batch wire processing, modular assembly and flow-line operation are adopted to ensure the production cycle and product consistency.



## • Product advantages

Focusing on technological innovation, CYG SUNRI has been deeply engaged in the charging field for many years; In view of some problems arising from the rapid development of the electric vehicle charging pile market, it has proposed brand new solutions based on its basic products.

### Our product advantages

#### Easy charging

- The charging piles support plug-and-charge, which has overturned the traditional VIN code identification method and realized 3-party interactive authentication, and the piles also support various multiple authentications;
- Through intelligent human-computer interaction, the charging state information and vehicle parameter information are collected and displayed in real time, making the visualized charging process more reliable
- Through intelligent charging power distribution, power resources can be allocated reasonably and there is no need to move the vehicles at night;
- Support orderly charging: use the existing distribution capacity to charge the vehicles at idle hours, which can reduce the cost of investment in the construction of charging stations;
- Support multi-pile parallel charging to improve fast charging efficiency;
- Support WeChat, Alipay, charging APPs, WeChat official account, applets and other payment methods;

#### Easy maintenance

- Support remote operation and maintenance function, which can realize remote start-stop, remote upgrade, accurate fault diagnosis, improve operation and maintenance efficiency and reduce operation and maintenance cost;
- Support self-recovery after emergency stop to reduce equipment failures caused by human factors;
- Modular system design facilitates later power expansion;

#### Easy operation:

- The charging cloud platform is matched with an intelligent video monitoring system to realize unattended duty on site;
- Support the BMS systems conforming to new and old national standards, as well as battery voltage intelligent diagnosis; can be applied to a wide range of models;
- Support open platform access, compatible with more than 20 platforms such as State Grid, China Southern Power Grid, Potevio, Yunkuaichong and Orange Energy.
- Intelligent data report facilitates customer operation management and investment income analysis.

## • Efficient after-sales service team


### After-sales service network

CYG SUNRI has a nationwide charging equipment and service network. There are 19 spare parts warehouses, 18 offices and 15 permanent sites for engineering personnel in provincial capitals. The more than 600 after-sales service personnel across China can quickly and timely respond to the needs of users.


### After-sale service advantage

 **Good timeliness**

response within 0.5 hour. The fast time for after-sales personnel to arrive at the site in Shenzhen is 3 hours, in Guangdong Province is 6 hours, and at the site outside Guangdong Province is 12 hours.

 **Spare parts management system**

19 spare parts warehouses are set up in provincial capitals all over China, which can quickly respond to and deal with on-site problems.

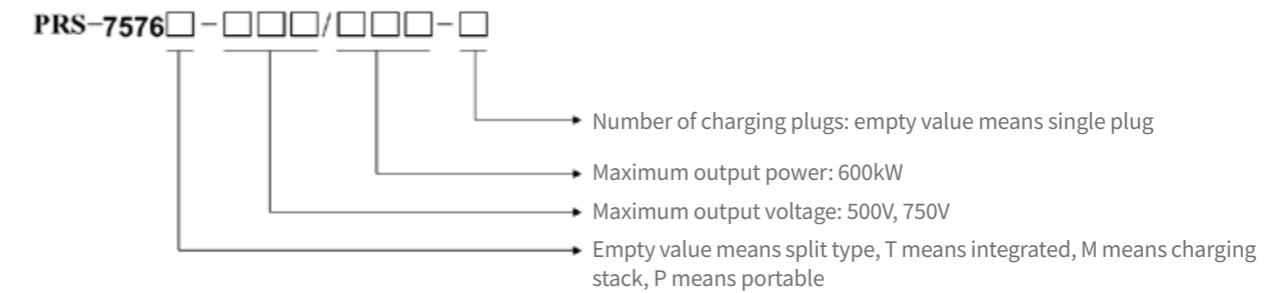
 **Periodic inspection and maintenance**

after-sales service personnel regularly carry out inspection and maintenance on the equipment to ensure the safe and stable operation;

# Introduction of Product Parameters and Advantages

## • Rules for model selection of charging piles

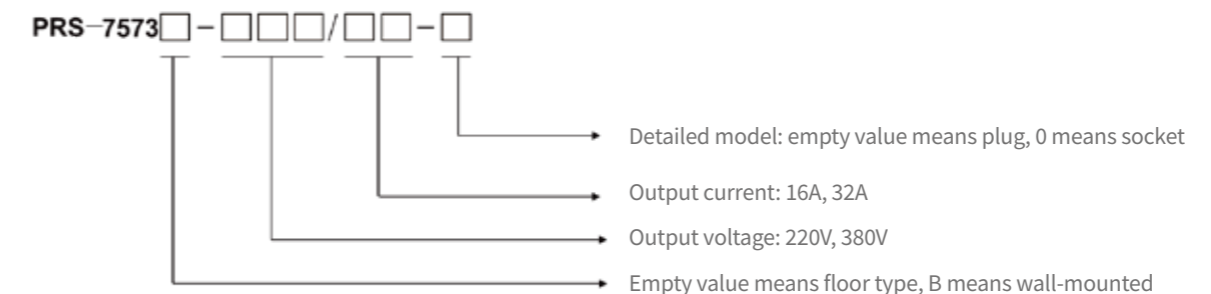
### Description of DC pile model selection



### Sample models

Power (kW)	750V Product Model	Description
60	PRS-7576T-750/60	One charger and one charging plug (integrated)
120	PRS-7576T-750/120-2	One charger and two charging plugs (integrated)
	PRS-7576-750/120-2	One charger and two charging plugs (split type)
300	PRS-7576T-750/300-2	One charger and two charging plugs
	PRS-7576-750/300-2	One charger and two charging plugs (split type)
600	PRS-7576M-750/600-10	Group-controlled DC charging pile (configured with 10 single-plug terminals)

### Description of AC pile model selection



### Sample product models

Voltage Level (V)	Model	Description
220	PRS-7573-220/16	220V, 16A vertical AC pile (with plug)
	PRS-7573B-220/32-0	220V, 32A wall-mounted AC pile (with socket)
380	PRS-7573-380/63	380V, 63A vertical AC pile (with plug)

\* For other product configuration requirements, it can be customized according to project requirements.

## • Integrated DC charger

### Product advantages

#### ① Intelligent state display

The charging state information and vehicle parameter information are collected And displayed in real time, making the visualized charging process more reliable

#### ② High protection & wide temperature range

With ip55 protection grade, the charger can operate stably in a wide temperature Range from -30 °C to 55 °C, which expands the adaptability of equipment

#### ③ Low standby power consumption

The average power consumption of each charging interface is less than 35w, and the Daily power consumption is only 0.8 kwh.

#### ④ Constant power range

The pile has a constant power range of 300v ~ 750v, and the voltage range covers all Large and small vehicles on the market;

#### ⑤ Double-cabin structure

Device and module are isolated to provide system reliability and prolong electrical life;

#### ⑥ Independent air duct of the module

The module dissipates heat faster, which can effectively improve the electrical service life Of the charging module;

#### ⑦ Opening at the front door of the cabinet

There is no door on the back of the cabinet, so the charger can be directly installed against The wall to meet various installation requirements on site.



120KW integrated dual-plug DC charger

### Technical parameters

Item	Indicator		
Operating temperature	-30~55°C		
Protection grade	IP55		
AC input voltage	380V:304~456 (Three-phase Five-wire System)		
AC input frequency	50Hz: 47~63		
Output voltage range	200 V~750V		
Constant power voltage range	300 V~750V		
Maximum output power	180 kW (single plug)		
Charge mode	Single-plug charging, double-plug charging/charging by turns/free power distribution		
Power factor	≥0.999		
Input total harmonic	≤5% (Class A equipment)		
Efficiency of the whole charger	≥95%		
Standby loss	≤30 W		
Noise	≤60 dB		
Start mode	Direct startup/password startup/credit card startup/startup by scanning QR code		
Charging method	Support payment with IC card, CPU card and online payment		
Power	30~80KW	90~160KW	150~240KW
Reference dimensions of cabinet (height * width * depth)	1630*600*400mm	1730*700*500mm	1800*750*600mm

## • Split type group-controlled DC charger

### Product advantages

#### ① Intelligent state display

The charging state information and vehicle parameter information are collected And displayed in real time, making the visualized charging process more reliable

#### ② High protection & wide temperature range

With ip55 protection grade, the charger can operate stably in a wide temperature Range from -30 °C to 55 °C, which expands the adaptability of equipment

#### ③ Low noise pollution

The centralized design of the rectifier can effectively control noise source,

#### ④ Low standby power consumption

The average power consumption of each charging interface is less than 35w, And the daily power consumption is only 0.8 kwh.

#### ⑤ Constant power range

The pile has a constant power range of 300v ~ 750v, and the voltage Range covers all large and small vehicles on the market;

#### ⑥ Independent air duct of the module

The module dissipates heat faster, which can effectively improve the Electrical service life of the charging module;

#### ⑦ Easy maintenance

Low investment cost, small floor area, and easy installation and later Expansion;



600KW split type 10-plug group-controlled DC charger

### Technical parameters

Item	Indicator	
Operating temperature	-30~55°C	
Protection grade	IP55	
AC input voltage	380V: 304~456 (Three-phase Five-wire System)	
AC input frequency	50Hz: 47~63	
Output voltage range	200V~750V	
Maximum output power	720KW	
Charge mode	Single-plug, multiple-plug/free power distribution	
Power factor	≥0.999	
Input total harmonic	≤5% (Class A equipment)	
Efficiency of the whole charger	≥94%	
Standby loss	≤100 W	
Noise	≤65 dB	
Start mode	Direct startup/password startup/credit card startup/startup by scanning QR code	
Charging method	Support payment with IC card, CPU card and online payment	
Number of terminals	1 ~ 24 terminals	
Power	180KW/240KW/300KW/360KW/480KW/600KW/720KW	
Reference dimensions of rectifier cabinet (height * width * depth)	2000*1450*850mm (≤400KW)	2000*2175*850mm (≤800KW)
Reference dimensions of split type pile (height * width * depth)	1550*500*240mm	

## • AC charging pile

### Product advantages

#### ① Fashionable appearance

Simple and graceful, sheet metal material, firm and durable, high safety

#### ② Intelligent state display

The charging state information and vehicle parameter information are collected and displayed in real time, making the visualized charging process more reliable

#### ③ Safe and reliable

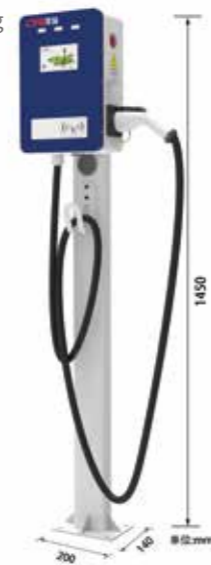
Ip55 protection grade; running normally even in harsh outdoor Environment;

#### ④ Multiple protection

Undervoltage, overvoltage, overcurrent, leakage, short circuit And lightning protections

#### ⑤ Low standby power consumption

Power consumption is less than 0.2 kwh per day, Saving electricity and high efficiency.



3.5 kW/7kW wall-mounted AC pile



21kW/42kW/84KW floor type AC pile

### Technical parameters

Item	Indicator	
Structure type	Wall-mounted type	Floor type
Typical power	3.5kW/7kW	21kW/42kW/84KW
Input voltage	AC220V: 176~264	AC380V: 304~456
Input frequency	50Hz: 47~63	50Hz: 47~63
Rated current	16A/32A	16A/32A/63A
Operating temperature	-35°C~55°C	
Operating humidity	≤95%	
Protection grade	IP55	
Standby power consumption	< 10 W	
Leakage protection	≤30mA	
Optional configuration	Floor-mounted bracket, screen, card reader, wireless communication module, electricity meter	Screen, card reader, wireless communication module, electricity meter
Start mode	Plug-in startup/password startup/startup by card swiping/startup by QR code scanning	
Billing method	Support payment with IC card/M1 card/app/WeChat official account	

## • Integrated AC/DC charger

### Product advantages

#### ① Complete functions

It supports both fast dc charging and slow ac charging, so the charging mode can be reasonably adjusted.

#### ② Intelligent state display

The charging state information and vehicle parameter information are collected and displayed in Real time, making the visualized charging process more reliable

#### ③ High protection & wide temperature range

With ip55 protection grade , the charger can operate stably in a wide temperature range From-30 °C to 55 °C, which expands the adaptability of equipment;

#### ④ Low standby power consumption

The average power consumption of each charging interface is less than 35w, and the Daily power consumption is only 0.8 kwh.

#### ⑤ Constant power range

The pile has a constant power range of 300v ~ 750v, and the voltage range covers all large And small vehicles on the market;

#### ⑥ Double-cabin structure

Device and module are isolated to provide system reliability and prolong electrical life;

#### ⑦ Independent air duct of the module

The module dissipates heat faster, which can effectively improve the electrical service Life of the charging module;

#### ⑧ Opening at the front door of the cabinet

There is no door on the back of the cabinet, so the charger can be directly installed against The wall to meet various installation requirements on site.

#### ⑨ Multiple protection

Undervoltage, overvoltage, overcurrent, leakage, short circuit and lightning protections



Integrated AC/DC charger

### Technical parameters

Item	Indicator	
Operating temperature	-30~55°C	
Protection grade	IP55	
AC input voltage	380V: 304~456 (Three-phase Five-wire System)	
AC input frequency	50Hz: 47~63	
Output voltage range	200 V~750V	
Maximum output power	DC 120 kW (single plug) AC 84 kW (single plug)	
Charge mode	AC output/DC output/AC/DC output	
Power factor	≥0.998	
Input total harmonic	≤5% (Class A equipment)	
Efficiency of the whole charger	≥95%	
Standby loss	≤60 W	
Noise	≤65 dB	
Start mode	Direct startup/password startup/credit card startup/startup by scanning QR code	
Billing method	Support payment with IC card, CPU card and online payment	
Power	DC 60KW + AC 42KW	DC 120KW + AC 84KW
Reference dimensions of cabinet (height * width * depth)	1800*700*700mm	1850*750*750mm

## • Charging module

### Technical advantages

#### ① Wide output voltage range

200v ~ 750v, suitable for various vehicle models.

#### ② Wide working temperature range

-40 °C ~ 75 °C. It can output at full load at 55 °C, which is 5 °C higher than that in the industry.

#### ③ Output capacity

The current in the low-voltage area does not retract, and the low-voltage Output capacity is strong.

#### ④ Ultra-low standby power consumption

The standby power consumption of evcm series products are controlled Within 10w.

#### ⑤ Unique design

The built-in residual voltage bleeder circuit in the module can reduce System cost and improve system reliability.

#### ⑥ Easy maintenance

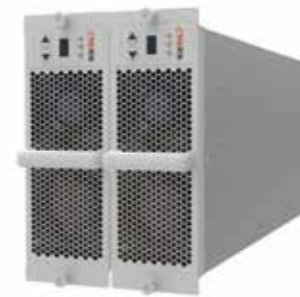
Hot plug terminals are used to realize on-line maintenance, making Maintenance and installation simpler and more convenient.

#### ⑦ Flexible application

The module parallel connection technology with autonomous current sharing Can easily realize redundant design and facilitate later expansion.



15KW charging module



20KW charging module  
(in line with the "three-unification" standards of State Grid)

## Technical parameters

Product Model	EVC75015G2	EVC75020G3
Output voltage range	15kW	20KW
Output constant power range	200V~750V	
Output current range	300V~750V	300V~750V
Harmonic current limit requirements (THD)	0~50A	0~66A
Efficiency	≤5%	≤5%
AC input voltage	≥95%	≥95.5%
AC input frequency	AC380V: 304~456	AC380V: 260~485
Phase number	50Hz: 47~63	50Hz: 45Hz~65Hz
Power factor	Three-phase + protective grounding	Three-phase + Protective grounding
Communication interface	≥0.99	≥0.99
Number of chargers	CAN	CAN
Operating temperature	≤60	≤60
Storage temperature	-40°C~75°C	-40°C~75°C
Operating humidity	-40°C~70°C	-40°C~70°C
Noise	5%RH~95%RH	5%RH~95%RH
Overall dimensions (height * width * depth)	≤60dB	≤60dB
MTBF	395mm*226mm*84mm	458mm*218mm*84mm
	400,000 hours	150,000 hours

## PRS-7570 Charging Operation Management System

Based on the development needs of the electric vehicle industry and in combination with our own power grid operation and maintenance experience, CYG SUNRI has launched the self-developed PRS-7570 electric vehicle charging operation and management system that can meet the operation and maintenance management needs of charging stations of different sizes and has accumulated rich experience in engineering project implementation.

### • Operating platform

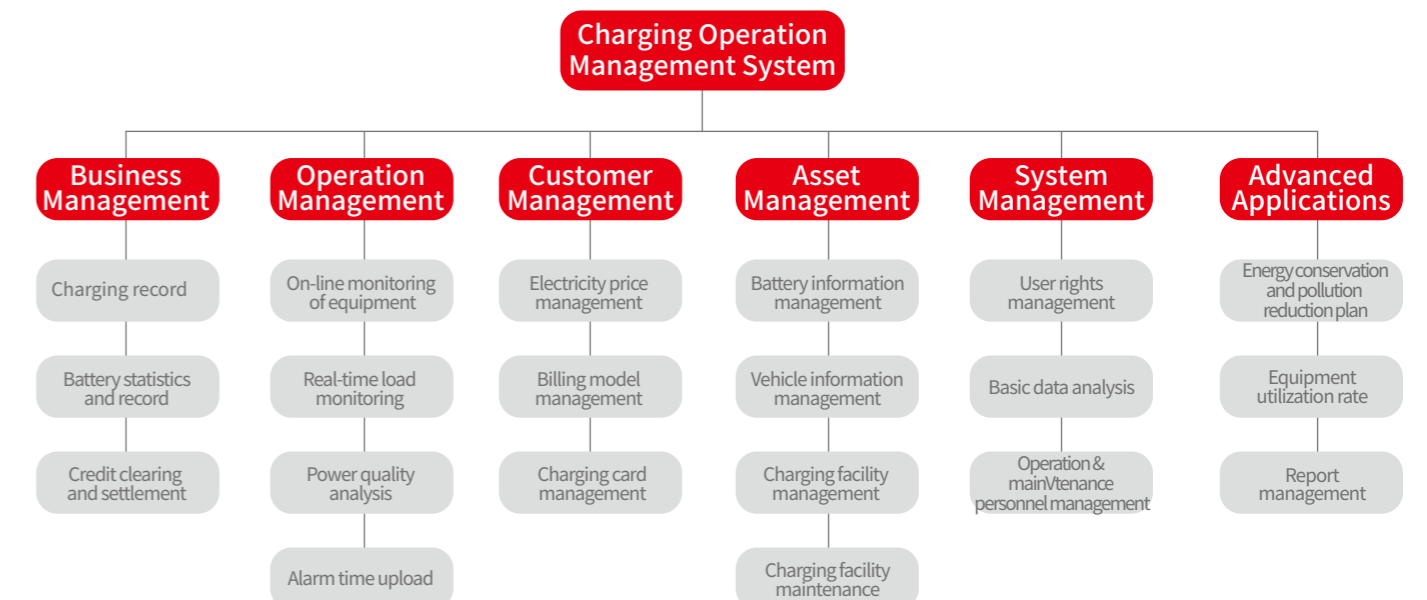
The PRS-7570 electric vehicle charging operation management monitoring platform provides charging pile monitoring and web management page view services: charging operation management, business management, customer management, asset management and system management, etc.



PRS-7570 Charging Operation Management Platform

Charging Operation Management System  
User name  
Password  
Remember the information

## System functions



## • On-site deployment scheme



WeChat official account



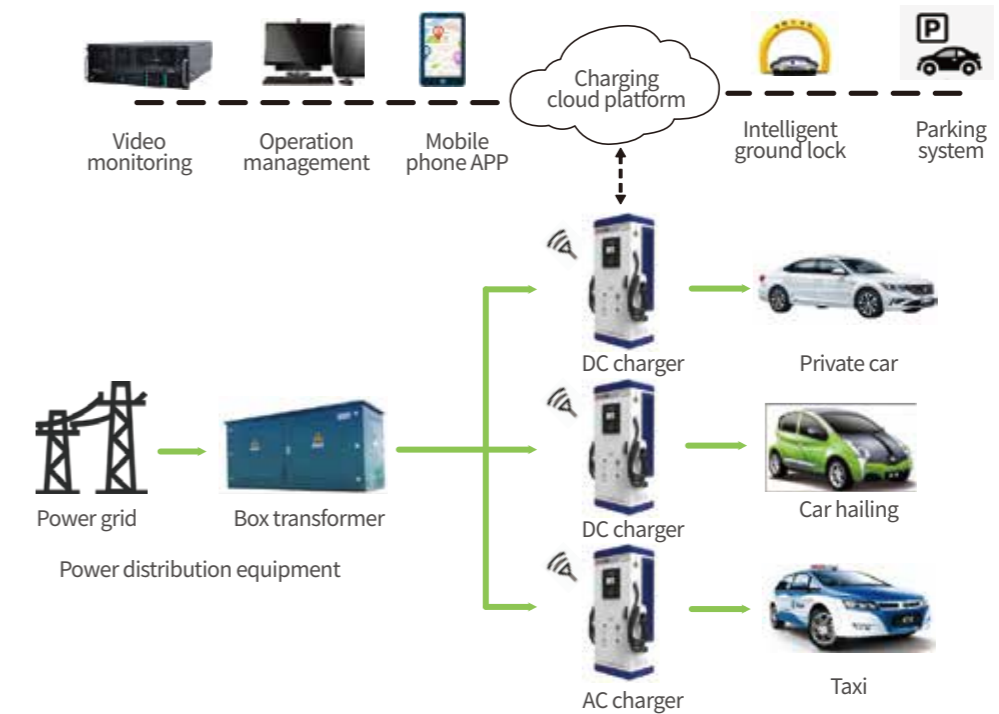
SUNRI Charging APP

### Features and advantages

- 01 Support multi-merchant management. Charging amount directly enters the user-bound merchant and can be withdrawn automatically.
- 02 Support real-time access and fast commissioning
- 03 Support checking the idle status of charging pile
- 04 Support a variety of custom charging methods (automatic charging, charging by electricity quantity, charging by amount, charging by time)
- 05 Support one-key navigation of charging station address
- 06 Support startup by QR code scanning and online payment

## Charging System Solutions

### • Public fast charging station



The public fast charging station equipped with high-power integrated DC chargers is mainly used to charge new energy vehicles, including new energy cars, new energy taxi and car-hailing service, so as to meet the needs of customers for going-to-work trip, daily trip and logistics operation.



Parking lots at business districts



Parking lots at expressway service areas



Parking lots at office buildings



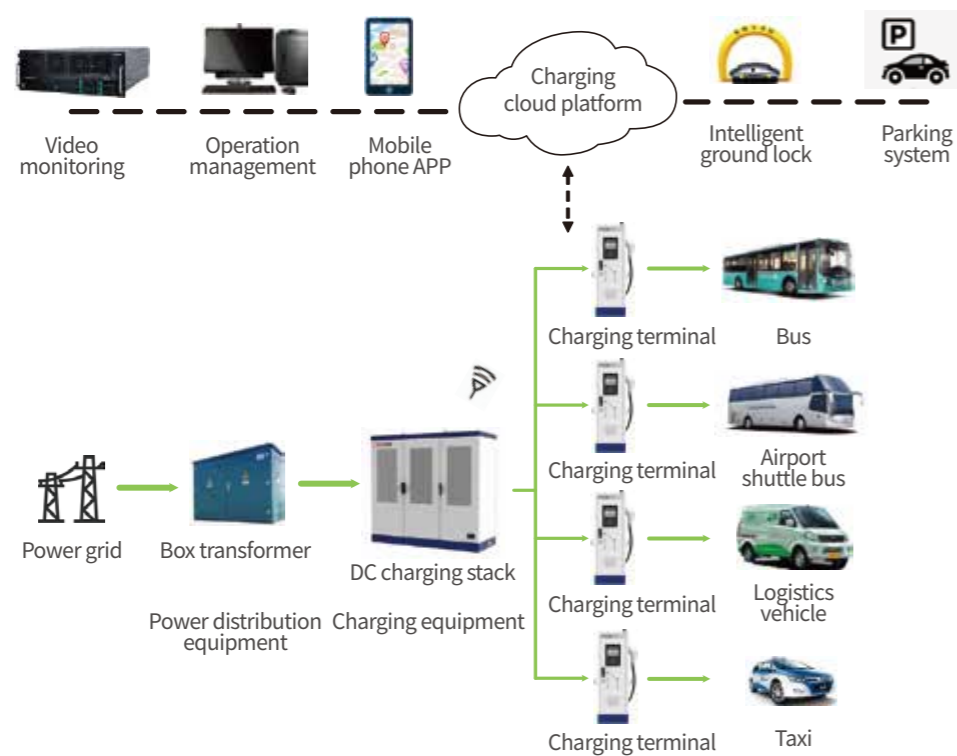
Underground parking lots at communities

### Main advantages

- Meet the charging needs of various vehicle models and types of customers;
- High-power DC chargers are equipped to meet the demand of fast charging;
- Cloud deployment is realized through platforms to provide convenient connecting and maintenance, and realizes one-stop service for management, operation and maintenance.
- Satisfy a variety of charging modes with simple and convenient operation;
- The parking lot is combined with the charging station to realize the maximum utilization of resources.



## • Special fast charging station



Special charging stations are mainly equipped with high-power group-controlled DC charging stacks, which can flexibly configure the number of terminals according to demand, and provide special charging services for public transportation, logistics, sanitation, taxi and car-hailing services and shuttle buses at airports.



Bus charging station



Taxi and sharing car charging stations



Airport shuttle bus charging station

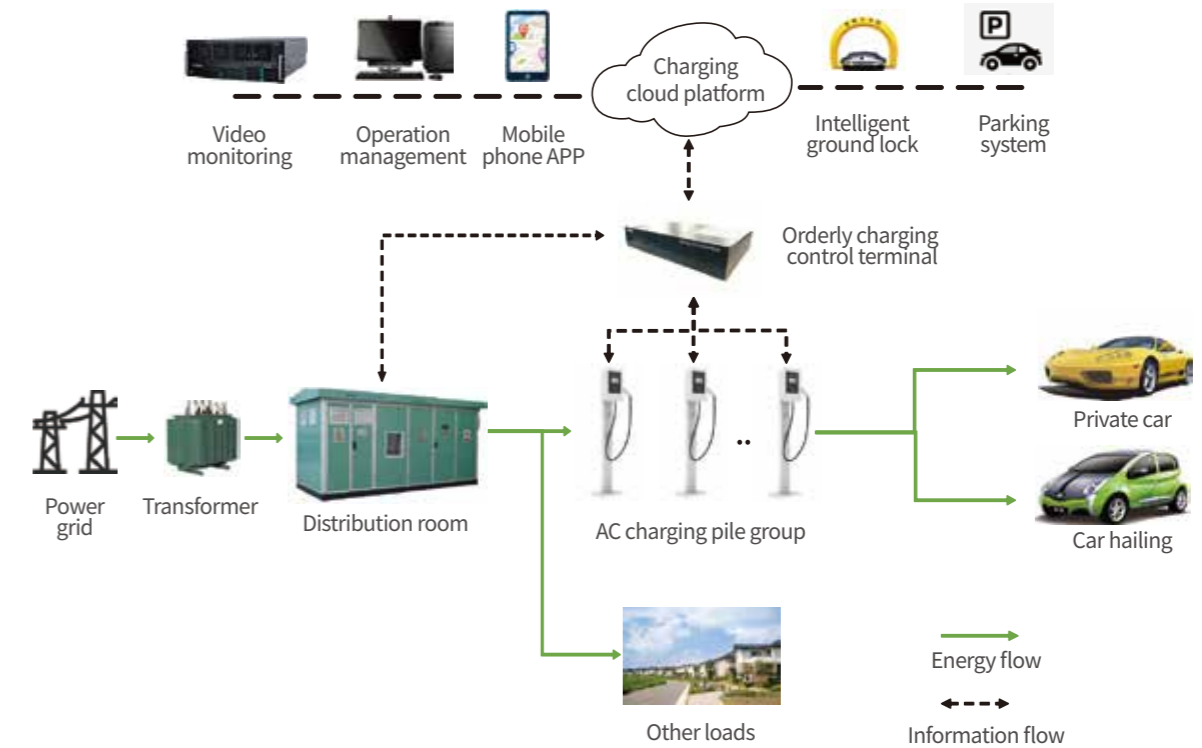


Charging station in logistics park

### Main advantages

- High utilization rate of charging equipment
- High power density design can save land investment
- The charging power is automatically distributed according to the vehicle demand, flexible response, and the fast and slow charging areas can be divided.
- High efficiency, low harmonic and low noise pollution
- Easy for late expansion, low cost, and the equipment investment is saved.

## • Ordered charging station at destination



Orderly charging is mainly based on modern collection, communication, control and information technology. It makes full use of the controllability of electric vehicle energy load to realize the matching of electric vehicle charging load with power supply capacity of power grid, and improves the utilization rate of power distribution. It is mainly applied to the transformation of residential quarters and old residential quarters.



Parking lots at business districts



Underground parking lots at residential communities



Parking lots at office buildings

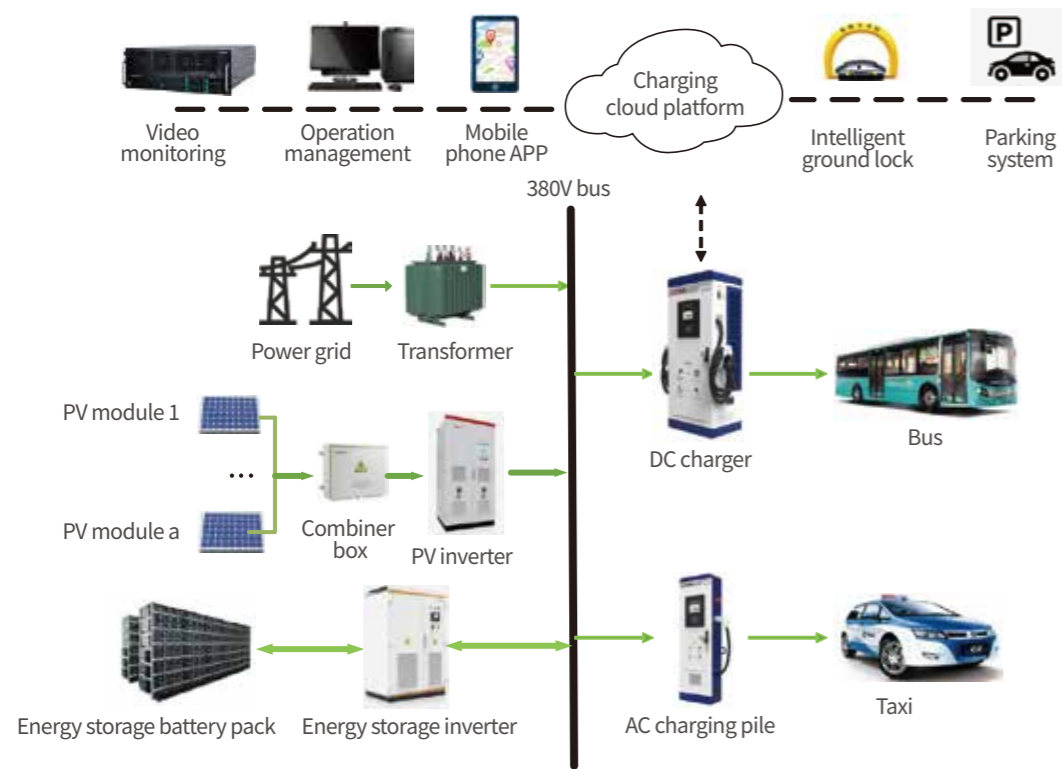


Parking lots at scenic spots and government units

### Main advantages

- Various power types of charging piles can meet various charging requirements
- Orderly control to avoid expansion and reduce investment and transformation costs
- Flexible and diverse Mobile phone APPs make charging operation simple and easy
- Flexibly expand intelligent ground locks and connect parking systems and other operational requirements

## • Special fast charging station



The system can be combined with comprehensive energy sources such as PV, wind power, energy storage and charging. The system is flexible, can interact with the power grid in two ways and has strong ductility; Various energy supply modes can complement with each other; Peak-load shifting function makes the system economical and reliable. It is mainly applied to large centralized comprehensive energy charging stations, PV-Storage-Charging microgrid in industrial parks and other scenarios.



## Main advantages

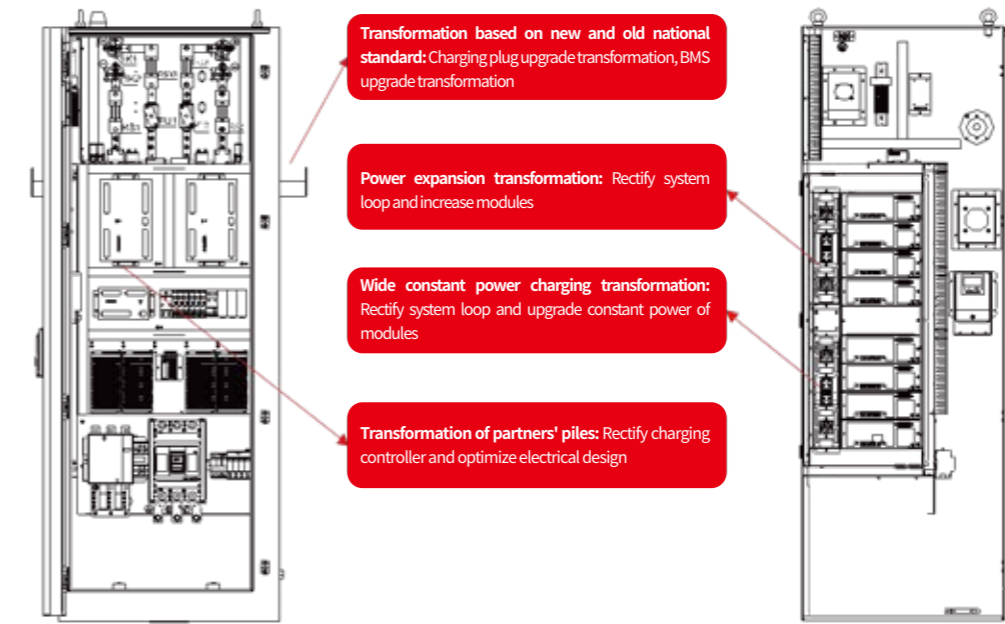
- Multi-energy complementation to increase new energy consumption
- The energy storage system shifts peak load to obtain the difference between peak and valley electricity prices
- Participate in demand side response to obtain peak regulation revenue

- Good ecological and economic benefits
- Standby energy storage system ensures that power grid failure will not affect power station operation

## • Operation and maintenance transformation scheme of charging system

### Transformation of charging equipment

CYG SUNRI not only provides system solutions for new charging stations, but also provides transformation services for old charging piles. According to the different actual needs of the site, the optimal transformation scheme is output and implemented quickly and effectively.

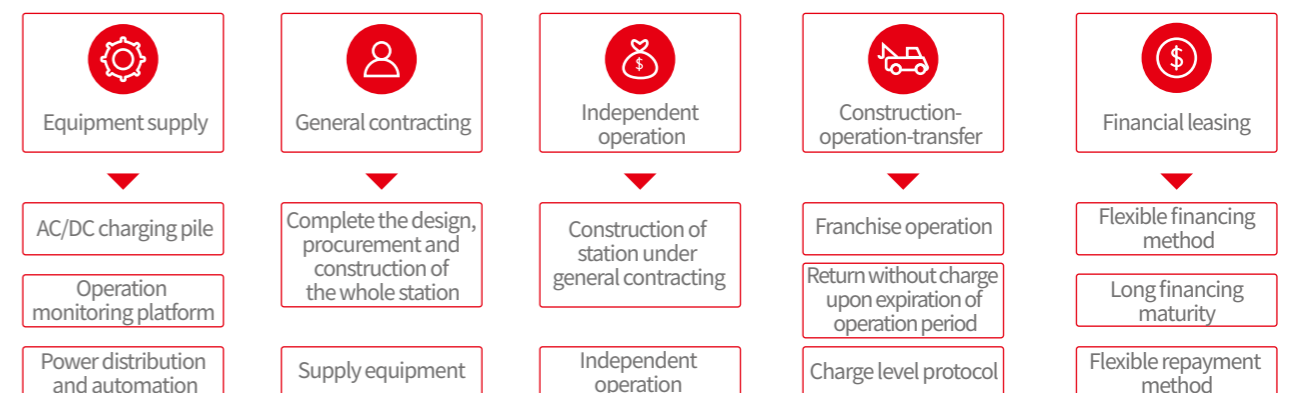


### Agent maintenance of charging equipment

CYG SUNRI can provide agent maintenance services for various types of charging equipment. The service ensures easy later maintenance and management, and the existing problems can also be improved and the safety, intelligence and service life of charging piles can be increased.



## • Cooperation mode



# Typical Projects

## Partners



## Typical projects by SUNRI

Part of the achievements

### State Grid Charging Station Project

Coordination mode: equipment supply

Project introduction: From 2016 to 2019, CYG SUNRI (among nearly 100 bidding enterprises) won 8 out of 11 bids of the State Grid Corporation of China, totaling more than 3,000 sets of AC and DC charging equipment. The products were applied in Beijing, Hebei, Jiangxi, Jiangsu, Chongqing, Sichuan, Zhejiang, Liaoning, Hubei and Fujian. In November 2017, SUNRI won the bid for the Xiong' an New Area Project of the State Grid. In October 2018, a total of 32 AC charging piles were connected to the charging station of the Great Hall of the People.

(Representative products: DC 120kW, DC 60kW, AC 42kW, AC 7kW)



### China Southern Power Grid Charging Station Project

Cooperation mode: equipment supply

Project introduction: In 2016 and 2019, SUNRI won 10 projects in the bidding of China Southern Power Grid and its branches in various provinces and cities, totaling more than 2,000 sets of charging piles. The products were applied in Guangdong (Guangzhou and Shenzhen), Yunnan, Guizhou and Hainan.



### Charging Station Project of State Grid EV Service

Cooperation mode: equipment supply + EPC general contracting

Project introduction: In 2016 and 2019, SUNRI supplied more than 200 sets of charging equipment for branches of State Grid EV Service in Shanghai, Shaanxi, Hunan and Hubei, including PV-Storage-Charging demonstration stations and super-large bus terminal charging stations.

(Representative products: Group-controlled DC 600kW, Group-controlled DC 300kW, DC 120kW, AC 84kW, AC 42kW)



### Shaanxi EV Service Hejiaying Group-controlled DC Charging Pile Project

Cooperation mode: equipment supply + station design

Project introduction: In August 2019, two phases of large-scale super charging station subprojects were built under the Shaanxi State Grid EV Public Charging Stack Project, with a total of 8 sets of 600KW charging stacks, which could meet the charging demand of 80 parking spaces, greatly promoting the development of the local new energy industry and bringing good ecological benefits to smog control.

(Representative product: group-controlled DC 600kW)



## Huanggang PV-Storage-Charging Project of Hubei EV Service

Cooperation mode: equipment supply + EPC general contracting

Project introduction: In October 2019, Hubei State Grid EV Huanggang PV-Storage-Charging Project was completed and put into operation. The project integrated advanced technologies such as 70kWp shed photovoltaic power generation, 200kWh large-capacity energy storage, 600KW high-power intelligent group-controlled DC charging stack to build an intelligent microgrid system. The system realized the basic balance between local energy production and energy consumption load through energy storage and optimal allocation, could flexibly interact with the public power grid as required and operate relatively independently, used as many new energy as possible to alleviate the impact of charging pile electricity consumption on the power grid; With good ecological and economic benefits, the system had guiding significance for the construction of subsequent PV-Storage-Charging projects.

(Representative products: group-controlled DC 300KW, energy storage microgrid system)



## Shenzhen Potevio PV-Storage-Charging Project

Cooperation mode: equipment supply + EPC general contracting

Project introduction: For Shenzhen Potevio Minle PV-Storage-Charging Integrated Microgrid Project, SUNRI provided a total PV capacity of 47.7 kWp; Energy storage system 100kW/200kWh; 10 sets of 120KW DC piles for charging system and 1 set of background monitoring system. For Shenzhen Potevio Wangjingkeng PV-Storage-Charging Integrated Microgrid Project, SUNRI provided a total PV capacity of 5.3 kWp; Energy storage system 100kW/200kWh; 8 sets of 60KW DC piles for charging system and 1 set of background monitoring system. For Shenzhen Potevio Rongchao Building PV-Storage-Charging Integrated Microgrid Project, SUNRI provided a total PV capacity of 31.8 kWp; Energy storage system 100kW/200kWh; 1 set of background monitoring system.

(Representative products: group-controlled DC 300KW, energy storage microgrid system)



## Xpeng Supercharger Station

Cooperation mode: equipment supply + providing solutions

Project introduction: Xpeng Auto Supercharger Station Project is a charging project jointly developed by SUNRI and Xpeng Motors. As one of the cooperative development suppliers, SUNRI provides more than 170 sets of 180kW split DC chargers for more than 20 stations in Beijing, Shanghai, Guangzhou, Shenzhen and Hangzhou. All of them are typical high-power split type charging stations.



## Jiangsu Nanjing SAR Project

Coordination mode: equipment supply

Project introduction: SUNRI provides about 1000 AC and DC charging piles.

(Representative products: AC380V pile, 30kW DC pile, 60kW DC pile, 120kW DC pile).



## Potevio Maintenance Project

Coordination mode: equipment supply + operation and maintenance contract

Project introduction: From November 1, 2017, SUNRI started to undertake Shenzhen Potevio Maintenance Project. A total of 57 DC piles and 4 stations were maintained. The stations are located in Shenzhen Futian Transportation Hub Center, Shenzhen Bay Port Transportation Hub Center, Shenzhen Luohu Qingshui River Bus Charging Station and Shenzhen Longgang Universiade Center Charging Station. The charging demand for taxi in this area is strong and good charging operation results have been achieved.

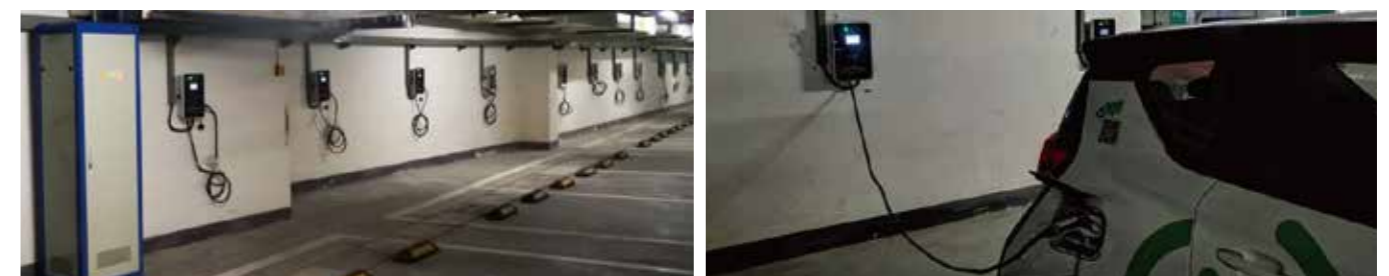


## China Resources Land Longfor Xinyi Street Ordered Charging Project

Coordination mode: equipment supply + providing solutions

Project introduction: The ordered charging project for the underground parking lot of Longfor Xinyi Street has a distribution capacity of only 80kVA, including one hundred and fifty 3.5 kW AC piles. Ordered charging scheme is adopted on site, and power distribution mode is flexibly adjusted to avoid on-site expansion. The deployment scheme of cloud + terminal was adopted, and the ordered charging control terminal was used as the edge computing center to realize the localization of ordered charging control, with faster response speed, lower networking cost and less network traffic.

(Representative products: AC220V AC wall-mounted 3.5 KW charging pile).



## Hunan Dongsheng Road Bus Charging Station Project

Coordination mode: equipment supply + general contracting

Project introduction: The project included a total of 50 AC charging piles, with a distribution capacity of 4000kVA and a background monitoring system. The project is located in Dongsheng Road, Changsha City, Hunan Province. The service object of the charging station is BYD k8. In this project, CYG SUNRI was responsible for the whole station's power installation formalities, electrical design of the charging station, supply and safety debugging of the complete set of power distribution equipment and charging equipment.

(Representative products: 60kW DC, 42kW AC)



## Group-controlled DC Charging Pile Project of Hubei Qianjiang BUS Company

Coordination mode: equipment supply + EPC general contracting

Project introduction: The first phase of the project consisted of 18 sets of charging stacks, including 13 sets of 400kW one-to-four (dual-plug terminals) and 5 sets of 300kW one-to-three (dual-plug terminals); One set of background monitoring system was deployed in the form of cloud server. The total power of the first phase of the project is 1,561,500 kW, which is applied to 7 stations including Hubei Qianjiang Bus Terminal. The main service objects are BYD K7 and K8, which can charge one car with two plugs simultaneously. SUNRI undertook the general contracting of all stations, equipment supply, operation, maintenance and safety debugging of the project.

(Representative products: Group-controlled DC 400KW, Group-controlled DC 300KW)



## Guiyang Future Ark EV Charging Station

Coordination mode: equipment supply

Project introduction: This station is currently the largest electric vehicle charging station of Guizhou Power Grid, with thirty 60kW single-plug DC charging piles. As the first project for the large-scale promotion and application of green new energy buses in Guiyang, the station will effectively assist the promotion and operation of new energy in Guizhou.



## Shanxi Taiyuan Yangjiabao Charging Station

Coordination mode: equipment supply

Project introduction: SUNRI provided 24 84kW AC charging piles, 2 120kW DC charging piles and 1 charging operation management system to the Project. In terms of charging operation management, the "WeChat official account" was adopted as the operator site, which greatly simplified the charging operation process of users and was well received by the owner and the vast number of users.



## Yunnan Honghe Public Charging Station Project

Coordination mode: equipment supply

Project introduction: SUNRI provided 2 sets of 360kW one-to-eight DC charging stacks, 13 sets of 120kW integrated double-plug DC piles, 5 sets of 90kW integrated double-plug DC piles and 8 sets of 7kW floor-mounted AC piles to the project. This station is currently the most invested and largest public charging station in Honghe region, which helped promote the construction of local ecological civilization and facilitate citizens' green travel.



## Foshan Chancheng Charging Station Project

Coordination mode: equipment supply

Project introduction: 15 sets of AC and DC charging piles and 1 background monitoring system. The project is located on both sides of the main municipal roads in Chancheng District, Foshan City, providing charging services for general vehicles. The project included 4 stations with a total of 15 charging piles; It is a typical distributed charging system.

